

# POWER DISTRIBUTION

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**COURSE:** SUBSTATION SAFETY AND OPERATION

**DESCRIPTION:** In order to safely operate substation equipment, personnel need to be familiar with the construction and operation of the equipment. This includes the understanding of specific distribution system configurations, switching operations, key interlocks, and system lockout requirements.

This site-specific training program meets all State and Federal OSHA training requirements of personnel operating power distribution systems. The new NFPA 70E requirements regarding arc flash protection will also be discussed.

**DURATION:** 2 DAYS

**FORMAT:** Power Point Presentation  
Instructor Demonstrations  
Hands-On Operation of site specific equipment

**AUDIENCE:** Electrical Skilled Trades, Supervisors, Engineers and any other personnel involved in the operation or maintenance of plant power distribution equipment.

**OBJECTIVE:** This training program will enable personnel to:

- Operate your sites power distribution equipment
- Safely restore from power outages on power distribution systems, thus reducing costly downtime
- Comply with OSHA and NFPA 70E safety standards for substation work
- Gain confidence through real, hands-on training

**TOPICS:** Applicable NFPA 70E and OSHA requirements  
Burns, Shock, and Hazards of electricity  
Hazardous energy control, Lockout and Tagout  
Proper use of safety and test equipment  
Safe work clearances  
Grounding for employee protection  
Selection and use of PPE  
Industrial Power Distribution Systems  
Substation Construction  
Substation Operations

